

Abstract

1.1 Method and apparatus for orientation/position
identification and/or coplanarity and/or separation
5 testing of connections (2) of components (3).

2.1 Before components (3) are fitted in automatic
placement machines, it is necessary to check that the
connections (2) are at the same height position
10 (coplanarity) and/or are sufficiently far apart from
one another (separation). In a known method, the
connections (2) are imaged successively onto a
position-resolving detector device (5), but in this
case the detector device (5) is over-exposed by the
15 direct glare of light source (1).

2.2 By using polarized light to illuminate the
connections (2), and by using an optical analyzer (7)
in the imaging beam path, the direct glare is
20 suppressed, and only the diffuse glare leads to
imaging.

2.3 Automatic placement machines

25 3. FIG. 1